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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,792	03/30/2004	Yasushi Sasagawa	FUJO 21.086	5194
26304 7590 05/15/2009 KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE NEW YORK, NY 10022-2585				
EXAMINER				
JAIN, RAJ K				
ART UNIT		PAPER NUMBER		
2416				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/813,792

**Applicant(s)**

SASAGAWA ET AL.

**Examiner**

RAJ JAIN

**Art Unit**

2416

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 11-20, 34 and 36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 11, 13-20, 34 and 36 is/are rejected.
- 7) ☒ Claim(s) 12 and 14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Objections***

Claims 12, 15, 16 and 18 are objected to because of the following informalities:  
The claims recite limitations which are vague and ambiguous its not clear how the limitations are being executed, Examiner recommends rewording the claims to more clearly define the invention. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 11, 13, 17, 20, 34 and 36 rejected under 35 U.S.C. 103(a) as being unpatentable over Hirst et al (USP 6,581,166 B1) in view of Bare (USP 6,577,600 B1).

Regarding claims 1, 11, 34 and 36, Hirst discloses a control packet processing apparatus 21 (Fig. 1, abstract, a pinging mechanism control packet is processed for routing) for receiving a control packet used to exchange a variety of information among devices that support a spanning tree protocol (Fig. 2, col 4 lines 55-60), comprising: a receiving device receiving the control packet (Fig. 2, 109, 111 receive packets); a buffer device storing the received control packet (Fig. 2, computers 101, 103, 105 have buffers for incoming packets); and

a control device autonomously transferring the packet stored in the buffer device to a processing unit in a specific cycle when no control packet is received for a specific period (Fig.6, col 4 lines 55-60; col 9 line 50-67; col 11 lines 29-44, a pinging mechanism is employed to determine packet status within a specific time interval for rerouting of packets).

Hirst fails to disclose preventing processing unit from reconfiguring topology of a spanning tree.

Bare discloses preventing processing unit from reconfiguring topology of a spanning tree (col 82 lines 3-43, load balancing with path costs allows for preventing of reconfiguring a topology change by increasing the cost of the non-load port so as to prevent a topology change).

Spanning tree protocol with load balancing permits the operation of multiple links throughout a network involving multiple switches, and which provide for improved utilization of an aggregate bandwidth of all paths in the network.

Thus it would have been obvious at the time the invention was made to incorporate the teachings of Bare within Hirst so as to improve overall network bandwidth efficiency.

Regarding claims 13, Hirst discloses input instructions as part of an overall set of algorithms to stop and/or start control packet transmission (claim 1).

Regarding claim(s) 17 Hirst discloses control packet processing apparatus receives a control packet instructing said control packet processing apparatus to restart transmitting the control packet, said program enables said control packet processing apparatus to stop said transfer process (Fig. 3 & 9).

Regarding claim(s) 20 Hirst discloses wherein when said control packet processing apparatus receives a subsequent control packet, said program enables said control packet processing apparatus to stop said transferring (Fig. 3 & 9).

Claims 15, 16, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirst et al (USP 6,581,166 B1) in view of Bare (USP 6,577,600 B1) and further in view of Chin et al (US 6,298,061 B1).

Hirst and Bare fail to disclose a bridge protocol data unit having a flag instructing a transmission stoppage as a control packet.

Chin discloses a bridge protocol data unit having a flag instructing a transmission stoppage as a control packet (col 3 lines 15-30; col 8 lines 50-60). Bridge protocol data unit messaging allows a spanning tree calculation that is loop free.

Thus it would have been obvious at the time the invention was made to incorporate the teachings of Chin within Hirst so as to have a loop free spanning tree.

#### ***Allowable Subject Matter***

Claims 12 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAJ JAIN whose telephone number is (571)272-3145. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

***/Raj K. Jain/***

Examiner, Art Unit 2416